AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1. Currently Amended) A spectrophotometric measuring cell, useful for automated reagent mixing and for handsfree physical cleansing comprising: [[;]]
- [[a.]] a measuring cell having a free fluid passageway throughout its inner bore from an inlet to an outlet, <u>said measuring cell</u> comprising a light-transparent measuring tube <u>having characterize by</u> a longitudinal axis *a* and [[a]] <u>an</u> inner bore of a diameter *b*,
- [[b.]] a shaker, accommodated in said tube'd-inner_bore of said measuring tube, said shaker being operative bore; having means to strike back and forth along the longitudinal axis a, said shaker comprising a brush of an outer diameter b, said brush being [[is]] adapted to provide an effective physical cleansing of the inner wall of the cell at the time the shaker is moving along the longitudinal axis its course; and
- [[c.]] <u>an</u> actuator, located outside [[the]] said tube, adapted to reversibly actuate said shaker to a predetermined rate and course;
- wherein fluids and/or reagents filling the measuring tube are effectively mixed by means of at least one of the shaker's strikes to obtain a homogenized solution and wherein a necessity of manually cleansing routine is thus avoided.
- 2. (Currently Amended) The <u>measuring cell assembly</u> according to claim 1, wherein the spectrophotometric measuring cell <u>further</u> comprising a detector having means to measure either at least one of a monochromatic wavelength <u>detector and</u> [[or]] a multi-channel RGB light emission <u>detector of a broad spectra range</u>.
- 3. (Currently Amended) The <u>measuring cell assembly</u> according to claim 1, wherein the <u>light-transparent</u> measuring tube <u>comprises at least one of is made of a light transparent glass, quartz and [[or]] a polymer.</u>

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4. (Currently Amended) The <u>measuring cell assembly</u> according to claim 1, wherein <u>at least a portion of</u> the shaker is made <u>at least in its portion</u> of stainless steel.

- 5. (Currently Amended) The <u>measuring cell assembly</u> according to claim 1, wherein the brush is made of nylon fibers.
- 6. (Currently Amended) The <u>measuring cell assembly according to claim 1</u>, wherein the actuator is at least one electromagnetic coil, adapted to actuate the shaker magnetically.
- 7. (Currently Amended) The <u>measuring cell assembly</u> according to claim 1, <u>wherein said actuator comprises comprising</u> at least two electromagnetic actuators, at least one <u>of said electromagnetic actuators being adapted to move the shaker <u>upwards in a first direction along said longitudinal axis</u>, and at least one <u>of said electromagnetic actuators being adapted to move the shaker <u>downwards in a second direction being opposite said first direction along said longitudinal axis</u>.</u></u>
- 8. (Currently Amended) The [[A]] measuring cell according to claim 9 as defined in elaim 1, useful for water systems, selected from and wherein said fluid comprises water from at least one of a swimming [[pools,]] pool, a water treatment facilities, facility, a sewage treatment plants, plant, a drinking water systems, system and a cooling tower towers, or any on-line measurement of water.
- 9. Currently Amended) The measuring cell according to <u>claim 1</u>-<u>claim 8</u>, <u>especially useful for swimming pools</u>, <u>having further comprising means to measure at least one of parameters selected from pH</u>, Redox, free chlorine content, light scattering, turbidity and temperature of a fluid located in said measuring tube.
- 10. (Currently Amended) A method for automatically-mixing of fluids and/or reagents at least one fluid and at least one reagent in a spectrophotometric measuring cell and for providing hands free cleaning physical cleansing of an [[the]] inner core of the spectrophotometric measuring cells, cell, the method comprising;

providing a spectrophotometric measuring cell having a free fluid passageway throughout its inner bore from an inlet to an outlet, said measuring cell including a light-transparent measuring tube having a longitudinal axis a and an inner bore of a diameter b, a shaker, accommodated in said inner bore of said measuring tube, said shaker being operative to strike back and forth along the longitudinal axis, said shaker comprising a brush of an outer diameter b, and an actuator, located outside said tube, adapted to actuate said shaker;

- [[a.]] filling the measurement cell with-fluids fluid;
- b. striking actuating the shaker to strike back and forth at least one time once, said so the brush thereby cleaning is physically cleansing the inner wall of the measuring tube;
 - [[c.]] calibrating for zero reading;
 - d. flashing flushing the measurement cell-with fresh fluids;
 - [[e.]] sealing the cell's outlets outlet;
- [[f.]] filling <u>said cell with at least one fluid sample sampled fluids and/or and at least one reagent, thereby obtaining reagents utilized for a photochemical reaction so a non-homogenized admixture; and is obtained</u>
- [[g.]] <u>actuating striking</u> the shaker <u>to strike back and forth</u> a plurality of times, <u>thereby obtaining</u> [[so]] a homogenized solution. is obtained and so bubbles of entrapped air or gas are purged from the cell;
- h. measuring a predetermined spectrum of the solution;
- i. opening the cell's outlets and flashing the colored fluids out of the cell by means of fresh fluid.
- 11. (New) A method according to claim 10 and wherein said actuating also comprises purging entrapped gas from said cell.
- 12. (New) A method according to claim 10 and also comprising measuring a predetermined spectrum of said homogenized solution.
- 13. (New) A method of cleaning an inner bore of a measuring tube of a spectrophotometric measuring cell, comprising:

providing a spectrophotmetric measuring cell including a measuring cell having a free fluid passageway throughout its inner bore from an inlet to an outlet, said measuring cell

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comprising a light-transparent measuring tube having a longitudinal axis and an inner bore and a shaker, accommodated in said inner bore of said measuring tube, said shaker including a brush;

filling the measurement cell with fluid; and

actuating said shaker, including said brush, to strike back and forth at least once along said longitudinal axis, said brush thereby cleaning said inner bore of said measuring tube.